

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-217909

(43)Date of publication of application : 27.08.1996

(51)Int.Cl.

C08K 3/00
C08F 8/00
C08L101/08
C08L101/14

(21)Application number : 07-053407

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(22)Date of filing : 17.02.1995

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(54) PRODUCTION OF WATER-ABSORBING RESIN COMPOSITION

(57)Abstract:

PURPOSE: To produce in good productivity a water-absorbing resin composition being excellent in water-absorbing performances such as water adsorbing capacity and an absorption rate of water, free from agglomeration and dusting in handling and having excellent properties e.g. a feeling of nonstickiness in use for sanitary goods.

CONSTITUTION: This production process comprises adding water and a crosslinking agent to a water-absorbing resin powder containing carboxylate- containing monomer units as the structural component of the polymer in the presence of an inert inorganic powder, heating the entire mixture under agitation to effect the crosslinking reaction of the resin and the separation of water by distillation and adding a surfactant to the residue or comprises adding water, a crosslinking agent and a surfactant to the water-absorbing resin powder containing carboxylate-containing monomer units as the structural component of the polymer in the presence of an inert inorganic powder and heating the entire mixture under agitation to simultaneously effect the crosslinking reaction of the resin, the separation of water by distillation and the mixing with the surfactant.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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